

Lord Adhesives Thermoset ME-541 Underfill Encapsulant

Category : Polymer , Thermoset , Epoxy , Epoxy Encapsulant, Unreinforced

Material Notes:

LORD Thermoset ME-541 encapsulant is an anhydride free, high purity, semi-conductor grade epoxy underfill product developed for the encapsulation of densely populated area array flip chip devices. It is formulated with the necessary structural strength to handle overmolding processes. Thermoset ME-541 encapsulant is engineered to withstand 260°C peak reflow temperatures of lead-free solders. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Thermoset-ME-541-Underfill-Encapsulant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	
Water Absorption	<= 0.90 %	<= 0.90 %	
Viscosity	35000 cP @Temperature 25.0 °C	35000 cP @Temperature 77.0 °F	TA Rheometer

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	5.50 GPa	798 ksi	Storage
Shear Strength	60.0 MPa	8700 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	32.0 µm/m-°C	17.8 µin/in-°F	Alpha 1
	100 µm/m-°C	55.6 µin/in-°F	Alpha 2
Glass Transition Temp, Tg	145 °C	293 °F	TMA

Component Elements Properties	Metric	English	Comments
Potassium, K	<= 0.00010 %	<= 0.00010 %	
Sodium, Na	<= 0.00010 %	<= 0.00010 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.30e+15 ohm-cm @Temperature 25.0 °C	5.30e+15 ohm-cm @Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	
	@Temperature 165 Â°C	@Temperature 329 Â°F	
	90.0 min	1.50 hour	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Pot Life	1440 min	1440 min	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
Gel Time	3.00 min	3.00 min	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	

Descriptive Properties	Value	Comments
Appearance	Black	
Chloride (%)	< 0.0045	
Consistency	Liquid	

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